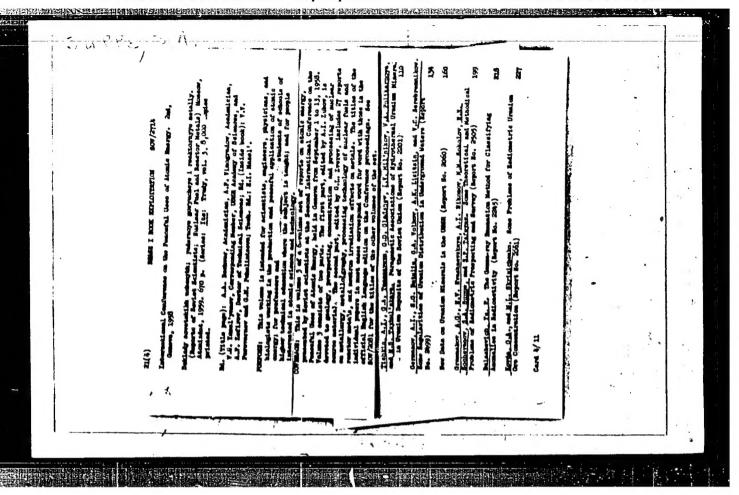
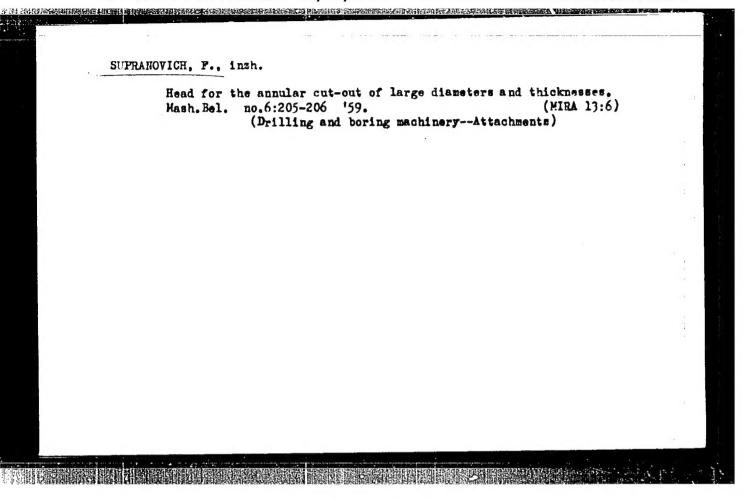
"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653920012-2



WAKSHUNDZKI, A.; SOCZEWINSKI, E.; SUPPRYNOWICZ, Z.

On the relation between the composition of the mixed stationary phase and the retention time in gas-liquid partition-chromatography. Coll Cz Chem 27 no.8:2001-2006 Ag *162.

1. Department of Physical Chemistry, University Lublin, Poland.



3a PRINCY10 0 , 1, 1.

USSR/Physics of the Hydrosphere - Dynamics of Sea and Land Water, N-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36252

Author: Supranovich, T. I.

Institution: None

Title: Calculation of the Maximum Tide-Ebb Flows

Original

Periodical: Tr. Gos. okeanogr. in-ta, 1955, No 30, 221-225

Abstract: A method is proposed for calculating the maximum tide-ebb flow using equations proposed by N. P. Vladimirskiy for the highest and lowest levels that are possible, depending on the astronomical causes. The initial data for such a calculation are taken to be the values of the harmonic constants of the maximum applitude of the flow component. The characteristics of the maximum tide-ebb flow are calculated beforehand from the dam obtained as a result of the computations. The secular and seasonal variations of the maximum tid ebb flow are considered. A simplified computation method for the changes in the flow is proposed, based on

Card 1/2

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653920012-2"

Card 2/2

3.92 1/3

50-12-8/19 Sugramovich, T. I. A STHORE The Graphic Operation of the Computation of the Harmonic Con-TITLE: stants From Two Series of Observation Lasting 24 Hours (Graficheskis priyem vychislenism garmonicheskikh postosannykh iz dvukh suicchnykh seriy nablyudeniy). Matherologiya i Gidrologiya, 1957, Nr 12, pp. 32 - 35 (USSR) IMRIODICAL: The work concerns the investigation of the tide. For the purpose ABS RACT: of solution of a whole series of tasks connected with investigations of the tide, the methods of treatment of one and two series of observation lasting 24 hours are used. The determination of the harmonic constant of a wave, finally, comes to the computation of amplitude of oscillation Z, Y, and of the phases z, y (table 1, pp. 34-35). for each save found out, the quantities Z, z are determined by astronomical and physical-geographical relations (conditions). The influence of the latter ones is empressed by the harmonic constants. The quantities Y, y only depend on the autronomical dita. The astronomical arguments: B, b; C, c; and the components of the 12- and 24 hours values of the flow: F2, f2; F4, f4 servis abouting point for the computations of the data. The values

The graphic Cybrition of the Computation of the Airmonic 50-12-8/19 Computants F. L. T. o Series of Coservation Easting 24 Hours.

of astronomical arguments are taken from the tables: The correstions of the amplitude of oscillation B and of the phase bnew raing to the observation data, the corrections of the amplifude of oscillation C - each according to the moon parallax and the corrections of the phase c - each according to accuents of calmination of the moon. The amplitude of oscillation (F_2, F_1) and the phase (f_2, f_1) of the namery components of the flow easily can be determined by means of the mold proposed by A. I. Davanin; For this purpose it is sallicient to everlie the carve of the flow lasting 12 - or 2% hours on the wold with the source of the flow lasting 10- or 24 hours asserding to the real observations. The phase difference of these two curves represents the initial phase of the flow, the amplitude of oscillation, however, is computed as average between the anxiaum and minimum values of the flow. Furthermore the difference and relations of the initial data, which are denoted in table 1 (pp. 34-35) by aX(or x1, X1), are to be determined. As result of the variation of the initial data one of the two main waves lasting 12- (or 24 -) hours will have the same characteristics, as well in the first 24 hours of observation, as in the become ones. One of the chactuations then casily can be

Jard 2/3

CANDENSITY OF THE PROPERTY OF

The Graphia Operation of the Computation of the Marianic Sc-12-9/19 Schotante From Die Decimation Lessing 2 Hours.

included, if the flow elements of the second 24 hours are subtricted from the flow elements of the first 24 hours, i. e. the differences are determined.

$$Y \cos y = X_1 \cos x_1 - X_2 \cos x_2$$
 (1)
 $Y \sin y = X_1 \sin x_1 - X_2 \sin x_2$

$$\pi \cos \pi = X_1 \cos x_1 - X_2 \cos x_2$$

 $\pi \sin \pi = X_1 \sin x_1 - X_2 \sin x_2$ (2)

I) the differences (1) and (2) and haven, the characteristics Is (a. In) as be so pated associated to the following formulae:

$$f = \frac{Y \sin y}{f \cos y} = \frac{X_1 \sin x_1 + X_2 \sin x_2}{X_1 \cos x_1 - X_2 \cos x_2}$$

$$f = \frac{V(f \sin y)^2 - (Y \cos y)^2 =}{V(X_1 \sin x_1 - X_2 \sin x_2)^2 + (X_1 \cos x_1 - X_2 \cos x_2)^2}$$

$$= V(X_1 \sin x_1 - X_2 \sin x_2)^2 + (X_1 \cos x_1 - X_2 \cos x_2)^2$$
There are 1 table and 2 Nlavio references. (4)

AVALLAÇI AR Jane 3, 5

1. Oceanography 2. Water waves-Harmonics 3. Astronomy-Effects

于5.65年6529 日1月8世中之**代表的 10人人名英格兰**加克克斯特地名美国克尔斯 CEATHER CHIEF 2006年655日 1000年655日 1000年655日 1000年655日 1000年655日 1000年6

3(9) SOV /50-59-7-9/20 AUTHOR: Supranovich, T. I. From the Experience in the Analysis of Short-termed Observa-TITLE: tions of Tide Phenomena (Iz opyta analiza kratkosrochnykh nablyudeniy nad prilivnymi yavleniyami) Meteorologiya i gidrologiya, 1959, Nr 7, pp 36-37 (USSR) PERIODICAL: The practice of joint evaluation of some daily observations of ABSTRACT: tides shows that a harmonic analysis offers the most reliable results for those tide waves which are biggest in size. To determine the harmonic constants by this method, at least 3-4 series of daily measurements are carried out in each point. The observations at different times are carried out under different astronomic conditions. Therefore, a group of such observations may also contain some with small amplitudes. As a rule, the harmonic amplitudes corresponding to the latter are unreliable, especially with not large components. In analyzing the curves distorted by observation errors, these components can be separated much worse than the other components. For these reasons, one of the two principal half-day (or day) waves shows nearly equal dimensions, while the dimensions of the Card 1/3

From the Experience in the Analysis of Short-termed Observations of Tide Phenomena SOV/50-59-7-9/20

other, not so distinctly marked, wave must be determined more precisely, or cannot be averaged at all due to a considerable divergence.— A method is pointed out here which was applied to such cases and has always improved the result. The "helmsman" method of the tide analysis expresses the half-day (or day) variations in form of two summands, formula (1). The tide variations caused by a principal wave (here S₂) or by a compo-

nent related to it can be expressed by formula (2). It is assumed that in evaluating the observations the results for this wave are heterogeneous. Then, the variations caused by this wave can be separated from each day series, and the harmonic constants can be determined by the most reliable variations. Formula (6) is derived for the required harmonic constants. The amplitudes and phases of the other components (both of the wave height and of the currents) are computed in a similar way. 4 solutions for the waves of the half-day period, and 2 solutions for the waves of the day-period, are obtained for each series of observations. The ordinates and points of time necessary for the computation are taken from the wave-course diagram. The practice shows that usually those

Card 2/3

From the Experience in the Analysis of Short-termed Observations of Tide Phenomena

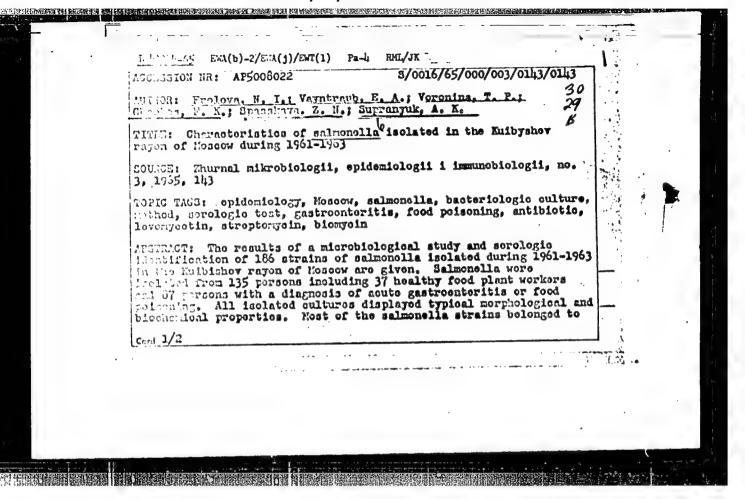
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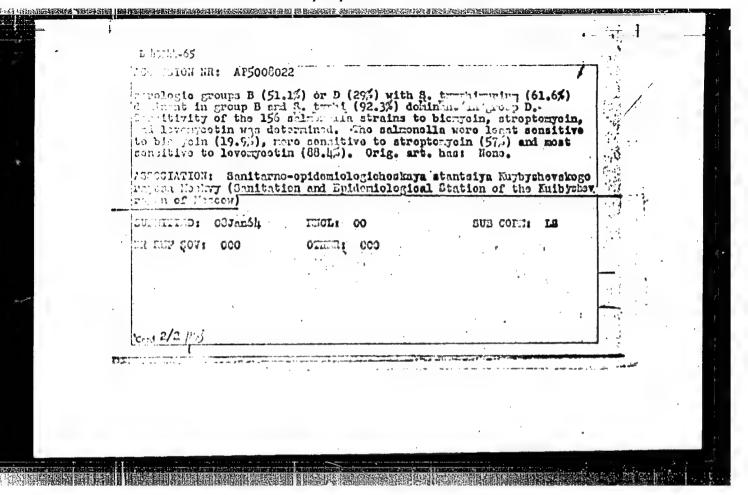
observations where the required wave is not distinctly marked show a spread in the values of the harmonic constants. The results of the analysis of reliable curves are nearly equal and permit the mean values of the constants to be obtained. Finally, the computation of the amplitudes and phases of a wave is explained by an example. There are 1 figure and 1 table.

Card 3/3

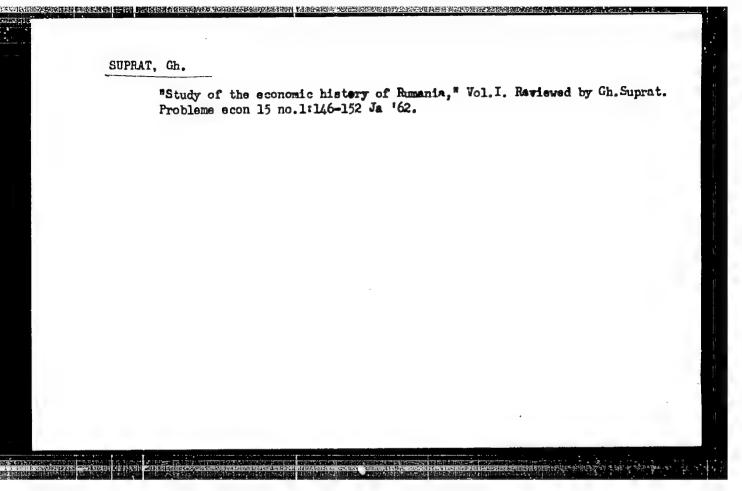
SOSINA, S.M.; PASHKUVSKAYA, M.T.; Prinimali uenastiye: SUFRANOVICH, V.A., mladshiy nauch. sotrudnik; NOVIK, V.G., mladshiy nauch. sotrudnik; TSYGAhkOVA, R.I., tekhnik-tekhnolog

Methods for the disinfection of mclasses for the production of baker's yeast. Trudy BNIIPPT no.4:113-126 '61. (MIRA 17:10)





Control of the contro



SUPRENENKO, M.

Dawn of the new world. Nauka i zhyttia 12 no.11:2 of cover, 1-3 N 162. (MIRA 16:1)

1. Chlen-korrespondent' AN UkrSSR, predsedatel' Nauchnogo soveta pri prezidiume AN UkrSSR po kompleksnoy probleme "Pobeda Velikoy Oktyabr'skoy sotsialisticheskoy revolyutsii i vosstanovleniye Sovetskoy vlasti na Ukraine (1917-1920 gg.)". (Ukraine-History)

STASHCHUK, M.F.; SUPRICHOV, V.A.

Mineralogy of loess deposits of the Sivash Valley. Mat.z min.
Ukr. no.2:79-91 '61. (MIRA 15:8)

(Sivash region-Loess)

SCTB DD/II: 22360-66 EWI(1)/I SOURCE CODE: UR/0325/65/000/004/0189/0192 ACC NRI AP6005103 (A) 34 Suprin, T. AUTHOR: 33 8 ORG: none Stimulating effect of fungibextracts on Scenedesmus obliquus TITLE: chlorella Nauchnyye doklady vysshey shkoly. Biologicheskiye nauki, SOURCE: no. 4, 1965, 189-192 TOPIC TAGS: chlorella, plant growth, fungus ABSTRACT: The effects of extrects prepared from imperfecti fungi (Fusella olivacea strain 5 c, Stemplylium sp. strain 1936, Helminthosporium sp. strain 146, Fuserium sembucinum strain 1297, Trichoderma sp. strain 6/9, and Trichoderum sp. strain 2074) on the growth of 10 to 15 day old Scenedesmus obliquus cultures were investigated in ager and liquid nutritive media. Growth of the cultures was determined 2 days after the addition of different extracts (1:10 to 1:10,000) by cell counts of experimental and control cultures. On the 3rd day culture suspensions were mixed by blowing air and drops were placed under a microscope (400 X) to determine the number of cells in at Card 1/2

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ACC NRI AP6005103

least 3 fields of vision. Then the erithmetic mean was determined for experimental and control cultures. Most of the tested extracts were found to display a marked growth stimulator effect with concentrations of 1:100 and 1:000 and an inhibiting effect with a concentration of 1:10. It should be noted that not all the fungi extracts acted as growth stimulators and in some cases batches of extracts prepared from the same producer displayed different effects. Extracts of Helminthosporium and Stemphylium (batches 60 to 90) displayed only an inhibiting effect, even with a 1:1000 concentration. The most active growth stimulator properties were displayed by the Fusella olivacea extracts. Three of the 10 Fusella olivacea extracts tested stimulated growth by more than 300% and 6 of these displayed a stimulating effect even with a concentration of 1:10,000; 5 of these extracts produced an inhibiting effect with a concentration of 1:10. Action differences of the various imperfecti fungi extracts on the growth of Scenedesmus obliquus cultures is explained as follows. Each extract appears to contain at least two substances. One substance displays an inhibiting effect with high concentrations, covering the stimulating effect of the other substance. The latter displays a stimulating effect with low concentrations covering the inhibiting effect. The display of only inhibiting or stimulating action by an extract is attributed to the formation of only one substance. Orig. art. has: 3 tables. SUB CODE: 06/ SUBM DATE: 15Ju16h/ ORIG REF: 002/ Card 2/2dd~

SUPRON, L.F.; ZVERNY, F.P.; MUKHIN, A.P., prof., red.; POL'SKIY, S.,

[Medical care of the population subjected to methods of mass destruction] Meditsinskoe obespechenie naseleniia v usloviiakh primeneniia sredstv massovogo porazheniia. Pod red. A.P.Mukhina. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1959. 407 p. (MIRA 12:9)

(ATOMIC MEDICINE)

运行方人对社会的<mark>企业创建设计可制的需要的问题</mark>程的技术的人的分别,新用程程和处理的影响,如何不过是,我们们可以允许完全的人了专业和政治研究的现在的理解的

SCFRON, L.F., dots., otv. red.; ARINCHIN, N.I., prof., red.;

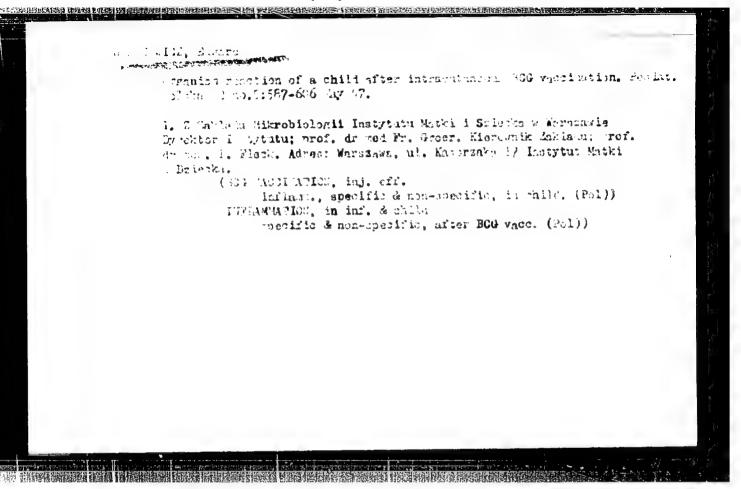
GEL'BERG, S.I., prof., red.; KLEPATSKIY, B.I., prof., red.;

LIEERZON, G.Ya., prof., red.; NOVIKOV, I.I., kand. med.nauk

red.; RAZUMOVICH, A.N., assistent, red.

[Abstracts of the reports of the Fourth Scientific Session on the Problem: Physiology, Morphology and Pathology of the Cardiovascular System] Tezisy dokladov Nauchnoi sessii po probleme: Fiziologiia, morfologiia i patologiia serdechnososudistoi sistemy. Grodno, Grodnenskii med. in-t, 1962. 207 p. (MIRA 17:10)

1. Nauchnaya sessiya po probleme: Fiziologiya, morfologiya i patologiya serdechno-sosudistoy sistemy, 4th, 1962. 2. Zaveduyushchiy kafedroy patologicheskoy fiziologii Grodenskogo meditsinskogo instituta (for Supron). 3. Zaveduyushchiy kafedroy normal'noy fiziologii Grodenskogo meditsinskogo instituta (for Arinchin). 4. Kafedra normal'noy anatomii Grodenskogo meditsinskogo instituta (for Novikov). 5. Zaveduyushchiy kafedroy mikrobiologii Grodenskogo meditsinskogo instituta (for Gel'berg). 6. Zaveduyushchiy kafedroy obshchey khirurgii Grodenskogo meditsinskogo instituta (for Klepatskiy). 7. Zaveduyushchiy kafedroy nervnykh bolezney Grodenskogo meditsinskogo instituta (for Liberzon). 8. Kafedra biokhimii Grodenskogo meditsinskogo instituta (for Razumovich).



MARYNOWSKA, Hanna; SUPRONCWICZ, Mdward

Tuberculin provocation of leukergy and erythrocyte sedimentation rate in tuberculosis in children. Gruslica 27 no.10: 1005-1017 0 159.

1. Z Kliniki Gruslicy Dsieciecej Instytutu Matki i Dsiecka. Kierownik: prof.dr. H. Marynowska.
(LEUKOCYTES)
(TUBERCULIN REACTION)

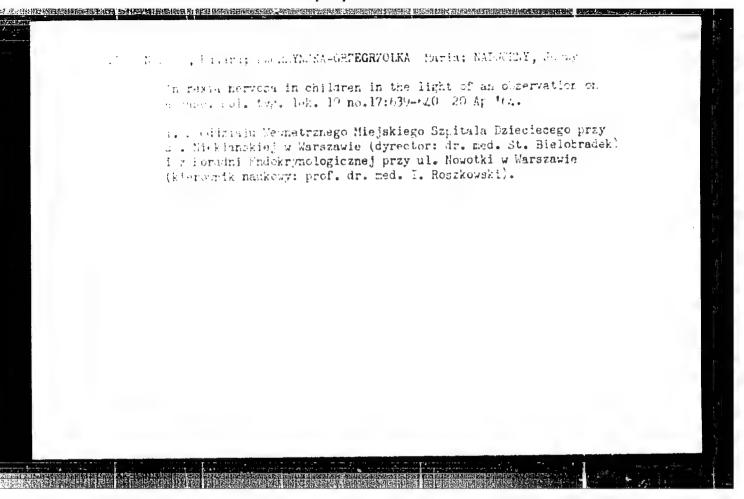
MARYNOWSKA, Hanna; SUPRONOWICZ, Edward

2个10年10年11年,19年1

Double and single reaction tuberculin allergometry in connection with tuberculin leukergic tests in tuberculous children. Pediat. polska 36 no.3:229-239 **161.

1. Z Kliniki Gruzlicy Dzieci Instytutu Matki i Dziecka w Warszawie Kierownik Kliniki: prof. dr med. H. Marynowska Dyrektor Instytutu: prof. dr med. F. Groer.

(TUBERCULIN REACTION in inf & child)



SUPRONOWICZ, Dwa

General results of psychoprophylactic method in painless lator. Gin. polska 27 no.6:785-789 Nov-Dec 56.

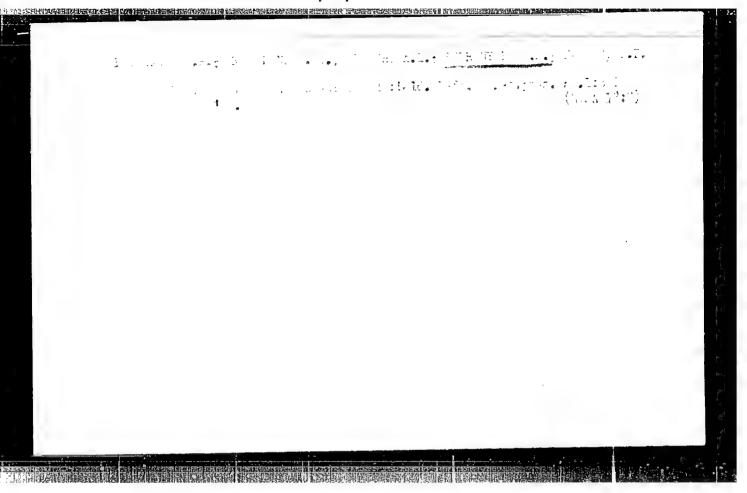
1. Z Kliniki Poloznictwa i Chorob Kobiecych P.A.M. w Szczecinie Kier. prof. dr. T. Zwolinski, i III Kliniki Poloznictwa i Chorob Kobiecych A.M. w Warszawie Kier. doc. dr. J. Lesinski. (LABOR

painless, psychoprophylactic method (Pol))

FROLOVA, N.I.; CHERKES, F.K.; VAYNTRAUB, E.A.; VORTNINA, T.P.; MONASZON, R.I.; SPASSKAYA, Z.N.; SUPPONYUK, A.K.

Authors' abstracts. Zhur.mikrobiol., epid. i immun. 42 no.2:141 (MIRA 18:6)

1. Sanitarno-epidemiologicheskaya #tantsiya Kuybyshevskogo rayona Moskvy.



SUPRONYUA, K.S.

Change in the color and the degree of pyritization of Permian rocks as a petroleum-prospecting index in the Dnieper-Donets Lowland. Neft. i gaz. prom. no.2:16-19 Ap-Je '64.

(HIRA 17:9)

KORENEVSKIY, S.M.; SUPRONYUK, K.S.

Isolation of the Kramatorsk series and the stratification of its potassium-bearing horizons in the western part of the Dnieper-Donets Lowland. Dokl. AN SSSR 165 no.5:1143-1146 D '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovateliskiy geologicheskiy institut i Trest "Chernigovneftegazrazvedka". Submitted April 27, 1965.

Card 1/2

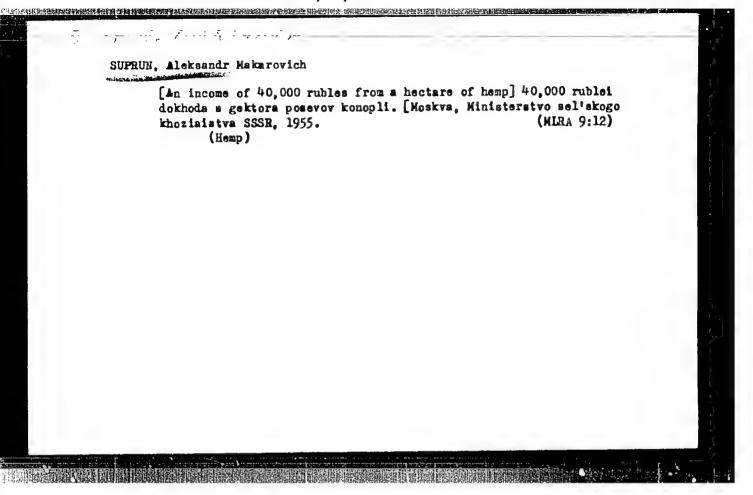
L 07h08-67 EVT(1)-SOURCE CODE: UR/0000/65/000/000/0126/0133 ACC NR: AT6020574 AUTHOR: Sukhomlin, Ye. A.; Supruchenko, V. A.; Reva, N. I.; Tolok, V. T. B+1 ORG: none TITLE: Dissipation of plasma oscillations excited in a current-carrying plasma SOURCE: AN UkrSSR. Vysokochastotnyye svoystva plazmy (High frequency properties of plasma). Kiev, Naukovo dumka, 1965, 126-133 TOPIC TAGS: plasma heating, plasma oscillation, plasma conductivity, plasma containment ABSTRACT: The heating and containment of plasma in a strong magnetic field in the presence of instabilities caused by "run-away" electrons is investigated. The experiment consists of a 190 ka linear discharge in hydrogen, characterized by the absence of gross hydrodynamic instabilities. The "run-away" current was monitored to study the onset of two-stream instability and the resultant thermalization of the plasma. In the absence of collisions the anomalous diffusion observed is attributed to an increase in the kinetic pressure of electrons in the center of the discharge. This effect was used to estimate the electron temperature from the time of arrival of the expanding plasma at the tube wall. The heating time, measured by observation of the emitted x-radiation and intense microwave bursts, is much shorter than that which can

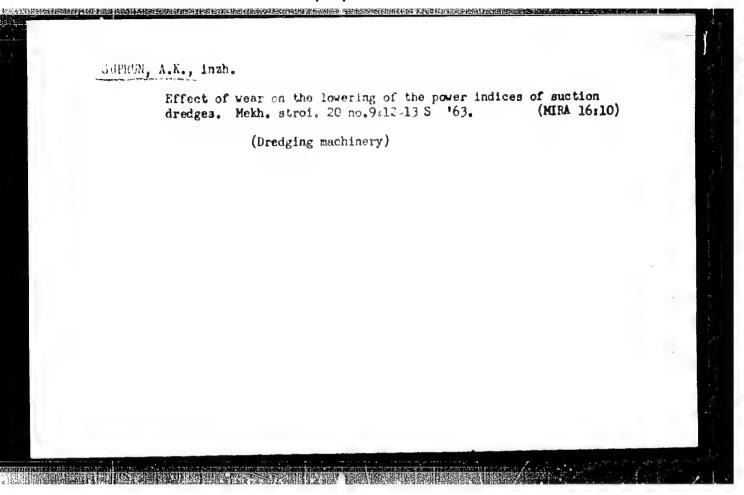
ACC NR: AT602057			0	
10 hours and shows	collisional heating. The heating time corresponsive tream instability. On	id to the posturated to	erature of the electron llective process of es.	
SUB CODE: 20/	SUBM DATE: 19Nov65/	ORIG REF: 008/	OTH REF: 005	
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Card 2/2 for				

MARINA, I., prokuror (irkutsk); SAIEY, A.; KISELEV, P., dispetcher; KOVESHNIKOV, P. (Rostovskaya obl., Belokalitvinskiy rayon); BORGUL', A.; SUPRUN, A. (Khar'kov); MUSAIEV, A.

Readers suggest, advise and criticize. Sov. profsoluzy 19 no.13:36-37 Jl '63. (MIRA 16:9)

1. Chlen fabrichnogo komiteta Grodnenskogo tonkosukonnogo kombinata (for Saley). 2. Makeyavskiy koksokhimicheskiy zavod (for Kiselev). 3. Predsedatel' rabochego komiteta Vedenovskogo sovkhoza, Kokchetavskaya obl. (for Borgul'). 4. Vagonnoye depo stantsii Kirovabad Azerbaydzhanskoy zheleznoy dorogi (for Musayev). (Trade unions)





"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653920012-2

A.T. Suprum, A. M.

Card 1/2

TITLE: Device for calculating a solid cylindrical shaft for twisting. Class 42, No. 166521

SCURCE: Byulleten' izobretaniy i tovarnykh znakov, no. 4, 1965, 83

TOPIC TAGS: snaft, torsion meter ()

ARSTRACT: This Author Certificate presents a device for calculating a solid cylindrical shaft for twisting, iontology a confirmal mapping levice, recording fevice, and multiplication units. To a crease the calculation rate with accuracy sufficient in practice, to simplify the circuit and design, and to decrease the residual and interest of the fulfilling and the second that are a sample of the forest constitution for special and the governor are made as of the fulfilling and the first second to the forest constitution of the second constitution and the sec

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ACCESSION NR: AP5007463

the recording device. The inputs of the divider units are connected through a three set of identical operational amplifiers to the or puts of the multiplication units.

ASSOCIATION: none

SHMITTED: 070et63 EMCL: 00 SUB CODB: AS, IE

Card 2/2

SUPRUM, A. P.

SUPRUN, A. P.: "Investigation of the simultaneous polycondensation of benzol and of the halide derivative of benzol with dichloro-ethane." Acad Sci USSR. Inst of Organoelemental Compounds. Moscow, 1956.

(Dissertation for the Degree of Candidate in Chemical Sciences.)

SO: Knizhnaya Letopis!, No. 26, 1956

PRODUCTION AND REPORTED TO PRODUCE A PRODUCTION OF THE PROPERTY AND PR

"Polymondersation of the system bencol-chlorobenceme-dichlor-ethane,"
or party price that it the Chi Chargess on the Chemistry and Physics of High Folymons, Ci Joseph Web 70, Moseow, Organic Chemistry Research Inst.

D-1,01.005

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AUTHORS: Rolesnikev, G. S., Horshak, V. V. 62-58-4-16/32

Suprum, A. T.

TITLE: Synthesis of Polyarylene Alkyls (Sintex poliarilenal=kilov). Communication 4. Temperature Influence on the Course of the Copolycondensation of Benzene and Chlorobenzene with Lichloroethane (Soobshcheniye 4. Vliyaniye temperatury na techeniye sovmestnoy poli=kondensatsii benzela i khlorbenzela z dikhloretanom)

PERIOTICAL: Investiya Akademii Enak SSSR, Otdeleniye Ehimicheskikh auk, 1958, Er 4, pp. 492-49, (USSA,

ABSTRACT: Until now mainly the influence of the mixture of initial substances on the properties of the forming polyconden=

sation products has been investigated. It was assumed that the compositions of the copolymer and the mixture of initial substances was identical. This is, however, only correct when a certain polycondensation equilibrium exists. When this equilibrium does not exist the initial substances can be made use of only insufficiently. This

Card 1/3 again leads to the formation of copolymers as could be

Synthesis of rolyarylene Alkyls. Communication of Temperature Influence on the Course of the Copolycondensation of Benzone and Chlorobenzone with Bichloroethane

62-58-4 16/32

observed in the copolymerization of vinyl compounds. Then such copolymers form, the composition of which is subject to changes during polycondensation. Until now the process of common polymerization has not been investigated to such an extent that the reason for these changes of the forming copolymers could be explained. In the present paper the authors report on the carried out investigation of the influence of the reaction tem= perature on the course of the common polycondensation of 1,2-dichloroethane with benzene and chlorobenzene in the presence of aluminum chloride. It was shown that with increasing prolongation of the reaction also the content of chlorine in the polymer increases. From this is to be concluded that the activity of benzene and chlorobenzene in the interaction with chloroethane is different. Furthermore an equation was suggested which connects the yield in copolymers with the temperature and the duration of reaction. There are 5 figures, 5 tables and 6 references, 2 of which are Soviet.

Card 2/3

Synthesis of Polyarylene Alkyls. Communication 4.

62-58-4-16/32

Temperature Influence on the Course of the

Copolycondensation of Benzene and Chlorobenzene with

Dientoroethane

ACSOCIATION: Institut elementoorganicheskikh soyedineniy. Akademii

nauk SSSR (Institute fo: Elemental-organic Compounds,

AS USSR)

SUBMITTLD:

November 1, 1956

AVAILABLL:

Library of Congress

1. Vinyl compounds-Copolymerization

Card 3/3

62-58-5-11/27

AUTHORS:

Kolesnikov, G. S., Korshak, V. V., Suprun, A. P.

TITLE:

Synthesis of the Polyarylenalkyles (Sintez poliarilenalkilov) Communication 5: The Influence of the Concentration of the Catalyst on the Course of Common Polycondensation of Benzene and Chlorobenzene With 1,2-Dichloroethane (Soobshcheniye 5. Vliyaniye kontsentratsii katalizatora na techeniye protsessa sovmestnoy polikondensatsii benzola i khlorbenzola s 1,2-dikhlor-

etanom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 5, pp. 600 - 604 (USSR)

ABSTRACT:

In the preceding report the authors reported on the results of investigation of the influence of temperature of the reaction on the course of the process of common polycondensation of benzene and chlorobenzene with dichloroethane. Continuing the investigations in this field, the authors dealt in the present report with the influence of the concentration of the catalyst on the further course of polycondensation. The influence of the concentration of aluminumchloride on the course of common

Card 1/2

Synthesis of the Polyarylenalkyles.Communication 5: 62-58-5-11/27 The Influence of the Concentration of the Catalyst on the Course of Common Polycondensation of Benzene and Chlorobenzene With 1,2-Dichloroethane

polycondensation of the 1,2-dichloroethane with benzene and chlorobenzene was investigated. It was found that the chlorine-content in the copolymer increases according to the prolongation of the reaction period. This confirms the already previously found heterogeneity of the relative activity of benzene and chlorobenzene in the interaction with dichloroethane. Further, the influence of the change of the reaction--temperature according to the change of concentration of the catalyst on the course of common polycondensation of dichloroethane was compared with that of benzene in the presence of aluminumchloride. There are 5 figures, 4 tables and 4 references, 3 of which are Soviet.

ASSOCIATION:

Institut elementoor nicheskikh soyedineniy Akademii nauk SSSR

(Institute for Elemental-organic Compounds AS USSR)

SUBMITTED:

November 1, 1956 1. Cyclic compounds--Synthesis

2. Aluminum chlorides--Catalytic properties 3. Benzenes--Condensation reactions 4. Chlorobenzene--Con-

densation reactions 5. Dichloroethane -- Condensation reactions Card 2/2

62-58-5-12/27

AUTHORS:

Kolesnikov, G. S., Korshak, V. V., Suprun. A. P.

TITLE.

Synthesis of the Polyarylenalkyles (Sintez poliarilenalkilov)
Communication 6: Influence of the Correlation of Initial Conponents on the Course of Process of the Common Polycondensation
of Benzene and Chlorobenzene With 1,2-Dichloroethane (Soobshcheniye 6. Vliyaniye sootnosheniya iskhodnykh komponentov na techeniye protsessa sovmestnoy polikondensatsii benzola i khlorben-

zola s 1,2-dikhloretanom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 5, pp. 605 - 613 (USSR)

ADSTRACT:

In previous works the influence of the reaction-temperature and of the concentration of the catalyst on the course of the common polycondensation of benzene and chlorobenzene with 1,2-dichloroethane in the presence of aluminumchloride was discussed (References 1,2). The investigation described in the present report, served for the purpose of determining the influence of the correlation of the components in the mixture of

Card 1/3

62-58-5-12/27

Synthesis of the Polyarylenalkyles.Communication 6: Influence of the Correlation of Initial Components on the Course of Process of the Common Polycondensation of Benzene and Chlorobenzene With 1,2-Dichloroethane

reactions- (in first place of the aromatic hydrocarbons). The applied method of performance was the same as that applied in the previous test. It results from tables 1 and 2 and from diagram 1 that with divided polycondensation of the benzenedichloroethane-and chlorobenzene-dichloroethane-systems, the velocity of this process is substantially higher in the case of the polycondensation of chlorobenzene with dichloroethane. The coefficient of polymerization of the polycondensationproduct of benzene with dichloroethane is higher than the coefficient of polymerization of the polymer (obtained from chlorobenzene and dichloroethane). The extent of the relative activity of chlorobenzene was determined (in which case the activity of benzene was assumed to be "1"). It was shown that the activity of these aronatic hydrocarbons does not depend on their concentration in the initial mixture. Moreover, an empiric equation was found which combines the structure

Card 2/3

Synthesis of the Polyarylenalkyles. Communication 6: Influence of the Correlation of Initial Components on the Course of Process of the Common Folyconless tion of Bennene and Chlorobennene With 1,2-Dichloroethane

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of the copolymer (with its yield) with the correlation of the arountic hydrocarbons in the initial mixture. An increase in the concentration of dichloroethane in the mixture of reaction causes a corresponding reduction of the yield of the copolymer. There are 5 figures, 10 tables and 5 references, 4 of which are Soviet.

(Total do dep Elemental-organic Contains 15 USC2)

.1..20: November 1, 1,56

1. Cyclic compounds—Synthesis 2. Benzenes—Condensation reactions 3. Chlorobenzene—Condensation reactions 4. Dichloroethane—Condensation reactions 5. Aluminum chloride catalysts—Applications

Onus: 3/3

AUTHORS:

Kolesnikov, G. S., Korshak, V. V.,

62-58-6-18/37

Suprun, A. P.

TITLE:

The Synthesis of Polyarylalkyls (Sintez poliarilenalkilov)
Communication 7. Joint Polycondensation of the Systems Dichloroethane-Benzene-Fluorobenzene and Dichloroethane-Chlorobenzene-Fluorobenzene (Soobshcheniye 7. Sovmestnaya polikondensatsiya
sistem dikhlor etan-benzol-ftorbenzol i dikhloretan-khlorbenzol-

-ftorbenzol)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 6, pp. 763 - 766 (USSR)

ABSTRACT:

In the preceding papers the authors spoke about the results of the investigation of the joint polycondensation of dichloroethane with benzene and chlorobenzene. For the purpose of explaining the behavior of other halide-substituted aromatic hydrocarbons in the case of joint polycondensation with dichloroethane and

benzene the authors investigated the polycondensation of the systems dichloroethane-benzene-fluorobenzene and dichloroethane-chlorobenzene-fluorobenzene in the presence of aluminum chlo-

Card 1/2

ride. The relative activity of the fluorobenzene is much lower

The Synthesis of Polyarylalkyls. Communication 7. SDV 62-58-6-18/37 Joint Polycondensation of the Systems Dichloroeth.ne-Bennene-Fluorobenzene and Dichloroethane-Chlorobenzene-Fluorobenzene

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than that of chlorobenzene. The polycondensation of fluorobenzene with dichlorocthane was carried out for the first time by two of the authors of this paper and Fedorova (Ref 4). There are 3 figures, 3 tables, and 4 Soviet references.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR

(Institute of Elemental-organicCompounds AS USSR)

SUBMITTED:

November 12, 1956

1. Benzene-ethyl chloride systems-Themical reactions

2. Condensation reactions 3. Aluminum chloride-Chemical effects

Card 2/2

AUTHORS: Krongauz, Ye. S., Suprun, A. P. (Moscow) SOV/74-27-9-2/5

TITLE: Brief Survey of the Publications on Isotactic Polymers

(Kratkiy obzor rabot no izotakticheskim polimeram)

PERIODICAL: Uspekhi khimii, 1958. Vol 27, Nr 9, pp 1056-1083 (USSR)

ABSTRACT: In the beginning the authors point out that in the course of

the last decades the interest of chemists has been directed to the investigation of the polymerization of unsaturated hydrocarbons (and their derivatives). This was mainly because important products had to be produced for national economies. The production of various polymers is discussed, beginning

with the production of new stereoregular polymers of the α-clefines by Shil'dknekht and Natt. In the USSR the production of stereoregular polymers was initiated by the publications of Topchiyev and Krentsel' (Refs 3,4). The different polymerization reactions, especially the stereospecific ones, are dis-

cussed (Refs 28-36). In the next chapter the authors deal with the mechanism and the kinetics of the stereospecific polymerization (Refs 37,39). In this special chapter the isotactic

polypropylene is discussed. In industrial practice those plas-

Card 1/2 tics are of especial interest which are made of products es-

SOV/74-27-9-2/5

Brief Survey of the Publications on Isotactic Polymers

pecially rich in isotactic polymers. Recently the so-called fractionation method has been employed (to produce pure isotactic polymers); this has been done by direct polymerization (Refs 44-46). The authors then deal in detail with the block polymers (Refs 44-49) as well as with the stereoisomeric polymers of diolefines (Refs 20,44,50-54). The polyvinyl chloride produced by means of radical polymerization, the isotactic polybutene, and isotactic polystyrene are then discussed briefly. The synthesis and the properties of well crystallized a-olefines with ramified chain are dealt with in a special chapter. Finally the authors discuss the polymerization of acetylene, and the copolymers of the a-olefines (Refs 61,62,64). There are 20 figures, 12 tables, and 64 references, 12 of which are Soviet.

Card 2/2

KOLESNIKOV, G.S.; SUPRUN, A.P.; SOBOLEVA, T.A.

Carbon chain polymers and copolymers. Part 14: Copolymerization of ethylene with unsaturated compounds in the presence of horon alkyl compounds. Wysokom.soed. 1 no.4:627-634 Ap '59. (MIRA 12:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Boron compounds) (Ethylene) (Polymerization)

81587 S/190/60/002/03/11/01/ B020/B066

5.383/

AUTHORS: Kolesnikov, G. S., Suprun, A. P., Soboleva, T. A.,

Plate, A. F., Slonimskiy, G. L., Pryanishnikova, M. A.,

Tarasova, G. A.

TITLE:

Polymers and Copolymers With Carbon Chains. XXI. Copolymers

on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and

1,2,3,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 3,

pp. 451-455

TEXT: The authors attempted the polymerization of dissolved bicycloheptadiene and hexachloro bicycloheptadiene in the presence of BF₃ and the polymerization of hexachloro bicycloheptadiene in the presence of benzoyl peroxide, tert-butyl peroxide, azoisobutyric acid dinitrile, tri-n-propyl boron, and TiCl₄. Hexachloro bicycloheptadiene does not form polymers (Ref. 4). Bicycloheptadiene (Ref. 5) forms polymers in methylene chloride in the presence of BF₃ (at -70°, 4 hours) in a 75% yield. The copolymerization of bicycloheptadiene with hexachloro

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Card 1/4

Polymers and Copolymers With Carbon Chains, XXI. Copolymers on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

S/190/60/002/05/11/014 B020/B066

bicyclopentadiene and other monomers (styrene, vinyl acetate, methyl methacrylate) was studied to clarify the influence of the copolymer composition upon their solubility and thermodynamic properties. The authors synthesized copolymers from equimolecular quantities of dissolved bicycloheptadiene and hexachloro bicycloheptadiene in the presence of BF3 (2 mole%) and in bulk in the presence of benzoyl peroxide and tri-n-propyl boron (0.5 mole%). The results obtained are given in Table 1. The curves of the thermodynamic properties of the copolymers of bicycloheptadiene and hexachloro bicycloheptadiene are presented in Fig. 1. According to an X-ray structural analysis, the resultant copolymers are amorphous. The properties of copolymers from equimolecular quantities of bicycloheptadiene and styrene are also given (Table 2). The results of the copolymerization of equimolecular quantities of bicycloheptadiene with methyl methacrylate in bulk in the presence of azoisobutyric acid dinitrile, benzoyl peroxide, and tert-butyl peroxide showed that the activity of methyl methacrylate

14

Card 2/4

Polymers and Copolymers With Carbon Chains. XXI. Copolymers on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,5,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

81587 \$/190/60/002/03/11/01: B020/B066

is much higher than that of bicycloheptadiene. The copolymers obtained contain a total of about 1 per cent of bicycloheptadiene links, which is not sufficient for an increase of the thermal stability of polymethyl methacrylate. The curves of the thermodynamic properties of the copolymers of bicycloheptadiene and styrene, as well as of bicycloheptadiene and vinyl acetate are given in Fig. 2. The latter copolymer was synthesized for the first time. The copolymers of bicycloheptadiene and hexachloro bicycloheptadiene with a molar ratio of 70.5: 29.5 are well soluble in dichloro ethane and toluene, and are highly elastic at elevated temperatures (250 - 350°). The copolymer of bicycloheptadiene and vinyl acetate is also highly elastic in a wide temperature range (60 - 350°). There are 2 figures, 2 tables, and 6 references: 3 Soviet, 2 US, and 1 British.

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ASSOCIATION: Institut elementoorganicheskikh soyedineniy (Institute of Elemental-organic Compounds). Institut organicheskoy khimii im, N. D. Zelinskogo AN SSSR (Institute of Organic

Card 3/4

KOLESNIKOV, G.S.; SUPRUM, A.P.; SOBOLEVA, T.A.; YERSHOVA, V.A.

Carbochain polymers and copolymers. Part 26: Polymerization and copolymerization of 1,1,2-trichloro-1,3-butadiene.

Vysokom. soed. 2 no.8:1266-1269 Ag *60. (MIRA 13:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Butadiene) (Polymerization)

KRISHEVSKIY, M.; PALCHINSKIY, B.; SUPRUN, A.P. [translator]

Viscosimetry of polymer solutions. Part 1: Capillary viscometer with electronic recording of flow time. Vysokom.soed. 3 no.6:936-942 Je 161. (MIRA 14:6)

1. Politekhnicheskiy institut, Lods[†].

(Viscosimeter) (Polymera)

S/190/62/004/005/019/026 B110/B108

Kolesnikov, G. S., Suprun, A. P., Soboleva, T. A., Yershova, AUTHORS:

V. A., Bondarev, V. B.

Carbochain polymers and copolymers. XXXIX. Copolymerization TITLE:

of 1,1,2-trichlorobuta-1,3-diene with other unsaturated

compounds

Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, PERIODICAL:

743-748

TEXT: Determinations were made of the relative activities of 1,1,2-trichlorobuta-1,3-diene and styrene (10:90; 25:75; 50:50; 75:25; and 90:10) and of the composition of their copolymers at low degrees of conversion (5 - 7/3). On the basis of the relative activities $r_1 = 0.07 \pm 0.03$ (styrene) and $r_2 = 1.18 \pm 0.08$ (trichlorobutadiene), the composition of the copolymer was plotted versus the composition of the monomer mixture. In order to raise the softening point (~50°C) of polytrichlorobutadiene, 1,1,2-tri-

Card 1/3

CIA-RDP86-00513R001653920012-2" APPROVED FOR RELEASE: 08/26/2000

S/190/62/004/005/019/026 B110/B108

Carbochain polymers and copolymers...

chlorobuta-1,3-diene was copolymerized with acrylonitrile, vinyl chloride, and bicyclo-(2,2,1)-hepta-2,5-diene. During bulk copolymerization with acrylonitrile at a ratio of 50:50, only 10 mole% of acrylonitrile radicals was aided to the copolymer. Thereupon, copolymerization was also carried out in a water-oil emulsion (1.8:1) with mersolate as an emulsifier, and benzoyl peroxide and ammonium persulfate as initiators. With the use of ammonium persulfate, only trichlorobutadiene homopolymers could be obtained from mixtures of 10 - 80 mole, of trichlorobutadiene and benzoyl peroxide. With acrylonitrile radicals of less than 40 mole%, the copolymer was completely soluble in toluene, while with more than 40 mole, it was only partially soluble. Extraction of a partially soluble copolymer with toluenc gave two fractions: (1) 88% by weight of a white, powder, soluble in toluene and containing 39 mole; of acrylonitrile radicals; (2) a wellow powder, soluble only in dimethyl formamide and containing 65 mole% or acrylonitrile radicals. Either powder possessed a low softening point, but their thermomechanical curves differed considerably. The copolymerization of 1,1,2-trichlorobuta-1,3-diene with vinyl chloride was also carried out in an emulsion, whereby solid lumps and lattices were obtained at the

Card 2/3

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Carbochain polymers and copolymers ...

same time. Their softening point is 50°C. The copolymerization of 1,1,3-triculorobuta-1,3-diene with bicyclo-(2,2,1)-hepta-2,5-diene was carried out both in bulk and emulsion. Bulk polymerization was done with .1 mole, of benzoyl peroxide. Polymerization in emulsion lasted 15 hrs at room temperature and, in addition, 10 hrs at 50°C, resulting in lightyellow to dark-brown polymers. At a ratio of 36.5 mole% of trichlorobutadiene to 63.5 mole, of bicycloheptadiene, the softening point of this copolymer was 150 - 140°C. It was soluble in toluene and dichloroethane. There are 2 figures and 5 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR

(Institute of Elemental Organic Compounds AS USSR)

SUBMITTED:

April 17, 1961

Card 3/3

CIA-RDP86-00513R001653920012-2" APPROVED FOR RELEASE: 08/26/2000

S/190/63/005/004/003/020 B101/B220

AUTHORS: Soboleva, T. A., Suprun, A. P., Kolesnikov, G. S.

Carbechain polymers and copolymers. XLIV. Study of the effect of various factors on the polymerization of 1,1,2-tri-chloro-1,3-butadiene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 487-491

TEXT: The effects of the nature and concentration of the initiator, the temperature and the reaction time were studied as to yield and molecular weight of the polymer obtained by mass polymerization of 1,1,2-trichloro-1,3-butadiene. Results: (1) At 80°C and with a reaction time of 230 min and an initiator concentration of 0.5 moles the following yields (%) and intrinsic viscosities in benzene at 25°C (dl/g) were obtained: with benzoyl peroxide 88.5, 0.39; with azoisobutyric dinitrile 75.5, 0.30; with tert-butyl peroxide 28.5, 0.19; with cumene hydroperoxide 29.5, 0.30; with trinn-propyl boron 24.0, 0.17; and without initiator 21.5, 0.33. (2) The effect of the initiator concentration was investigated using benzoyl peroxide at 80°C and 230 min reaction time. The initiator concentrations (moles), yields (%) and intrinsic viscosities (dl/g) are given: 0.1, 45.5.

S/190/63/005/004/003/020 B101/B220

Carbochain polymers and ...

0.23; 0.5, 88.5, 0.39; 1.5, 99.5, 0.20. (3) The polymer yield with 0.5 mole; benzoyl peroxide and 230 min reaction time increases from 1% at 25°C to 96% at 100°C. (4) Under equal conditions the intrinsic viscosity was ~0.5 at 25°C and ~0.1 at 40°C. (5) With 0.5 mole; benzoyl peroxide at 80°C the polymer yield was 30% after 60 min and almost 100% after 300 min reaction time. The intrinsic viscosity increased rapidly during the first 60 min but thereafter very slowly. (6) The following optimum values are given: 0.5% benzoyl peroxide, 80°C, 360 min. The properties of the polymer thus obtained are: yield 99.9%; intrinsic viscosity 0.43 dl/g; m.w. 71,000; specific weight 1.44; softening point +50°C. (7) It is evident from the IR spectrum of 1,1,2-trichloro-1,3-butadiene and its polymer that the polymer has a considerable number of CH₂ and CH groups at the double bond; this makes a further study of the mechanism of this reaction desirable. There are 4-figures and 3-tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds of AS USSR)

SUBMITTED: September 9, 1961

Card 2/2

ACCESSION NR: AT4020704

\$/0000/63/000/000/0128/0130

AUTHOR: Suprun, A. P.; Soboleva, T. A.; Lopatina, G. P.

TITLE: Polymerization and copolymerization of 3,3,3-trichloropropene

SOURCE: Karbotsepnykye vyksokomolekulyarnykye soyedineniya (Carbon-chain macro-molecular compounds); sbornik statey. Hoscow, izd-vo AN SSSR, 1963, 128-130

TOPIC TAGS: block polymerization, copolymerization, trichloropropene, polytrichloropropene, methyl methacrylate, benzoyl peroxide, vinyl acetate, styrene, acrylonitrile

ABSTRACT: The effect of temperature and reaction time on the block polymerization of 3,3,3-trichlorpropene was investigated and the thermomechanical properties of the polymer were studied. Copolymers of 3,3,3-trichloropropene with methyl methacrylate, vinyl acetate, styrene and acrylonitrile were also obtained by block polymerization. The reaction was carried out with 0.5 mol.% benzoyl peroxide under the influence of x-irradiation at different temperatures, the maximum yield being obtained at 70C. At 100C, the yield decreased. The experimental data are tabulated. "The authors would like to thank B. L. Tsetlin for carrying out the radiation polymerization." Orig. art. has: I figure and 2 tables.

Card 1/2

1.以及特別的社会的方式。

1. 1.37h/, 43 APPLOASO Fa h/Po-h/Pr-h
ACCESSION NR: AP3000686 S/0190/63/005/005/0639/0643

AUTHOR: Soboleva, T. A.; Suprun, A. P.; Kolesnikov, G. S.

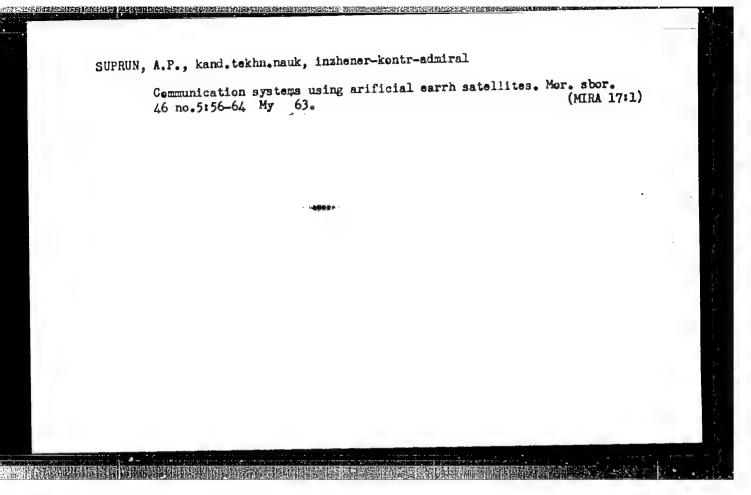
TITLE: Carbon-chain polymers and copolymers. 46. The influence of various factors on the emulsion polymerization of 1,1,2-trichlorobuta-1,3-diene

SOURCE: Wy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 639-643

TOPIC TAGS: carbon-chain polymers, emulsion polymerization, trichlorobutadiene, initiator, emulsifier

ABSTRACT: The present work is a continuation of an earlier investigation by the authors, with the difference that there the 1,1,2-trichlorobuta-1,3-diene was in bulk. In the present work a study was made of the ratio of phases, nature, and concentration of initiator, reaction temperature, reaction time, and emulsifier concentration in relation to the yields and molecular weights of the resultant polymers. The experiments were conducted in sealed, evacuated ampules. A maximum yield of polytrichlorobutadiene was obtained at a ratio of the aqueous to the oily phase of 1.8/1, with a concentration of the initiator (potassium persulfate) of 0.17 Mol%, at a temperature of 50C, a reaction time of approximately 5 hours, and with 1% of the emulsifier used. Under the above optimal conditions for the initiator, phase ratio, and temperature, and with an almost double concentration of Cord 1/32

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weight was obtained, as againg the process of polymerization tables and 3 figures.	, a polytrichlorobutadiene of inst the figure of 70,000 for to was conducted on bulk materi	al. Orig. art. has:	The state of the s
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SUBMITTED: 040ct61	DATE ACQ: 17Jun63	ENCL: O1	
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SOHOLEYA, T.A.; SUPRUN, A.F.; PAVLOVA, S.A.

Polydispersity of polymers of 1,1,2-trichloro-1,3-butadiene. Vysokom. soed. 6 no.1:89-91 Ja 64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

FAVIOVA, S.A.; SOBOLEVA, T.A.; SUPRUN, A.P.

拉住的**就是一种目录中的14年的7 国际存储的基础,全部使命令**的全体系统经验和设计。

Viscosity and molecular weight of polytrichlorobutadiene.

Vyskom. soed. 6 no.1:122-124 Ja'64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

SUPRUN, A.P.; SOBOLEVA, T.A., LOPATINA, G.P.

Polymerization of 3,3,3-trichloropropene under pressure. Vysokom. seed. 6 no.41726-728 Ap *64. (MIRA 17:6)

1. Institut elementoorganicheskikh soyedimeniy AN SSSR.

CREBENSHCHIKOV, L.S.; SHKURATOV, O.G.; GIKAL, N.K.; SUPRUN, A.P.

The EPM_50 mine electrostatic precipitator. Gor. zhur. no.5:64-67 My '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii.

ACCESSION NR: APLO32573

3/0190/64/006/004/0726/0728

AUTHORS: Suprun, A. P.; Soboleva, T. A.; Lopatina, G. P.

TITLE: Polymerization of 3,3,3-trichloropropene under pressure

SOURCE: Vywsokomolek. soyedin., v. 6, no. l, 1964, 726-728

TOPIC TAGS: methyl ethylene, propene, trichloropropene, trichloropropene polymerization, pressure polymerization, benzoyl peroxide initiator, radical polymerization mechanism, polytrichloropropene, polytrichloropropene thermomechanical property

ABSTRACT: Polymerization of 3,3,3-trichloropropene was conducted in special lead ampules placed in a high-pressure reactor. It was found that in the presence of 0.6 mole/% of benzoyl peroxide as initiator and at a temperature of 50C a yield of polytrichloropropene of 5, 19, and 31% respectively was obtained after 6 hours under 3000, 6000, and 7000 atmospheres. Without initiator, the yield of the polymer under 6000 atm at 50C and after 12 hours was only 16. In the presence of 1 and 3 mole/% of the initiator it reached 50 and 75% respectively. The polymer was soluble in benzene, toluene, xylene, nitrobenzene, chloroform, carbon tetrachloride,

Card 1/2

ACCESSION NR: AP4032573

trichloroethylene and anisole. It had a molecular weight of 3500, an amorphous structure with small crystalline inclusions, and a softening point at 500. The authors state that in the presence of benzoyl peroxide (without pressure application) the molecular weight of the resulting polytrichloropropene averages 1200, with 15% of it as high as 16 000. The high-molecular fraction differs in solubility and other properties from the main mass. Trichloropropene does not polymerize under normal pressure in the presence of 0.6 mole/% of initiator. Orig. art. has: 2 tables and 2 charts.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds AN SSSR)

SUBMITTED: 21May63

DATE ACQ: 11May64

ENCL: 00

SUB CODE: CH

NO REF SOV: . 002

OTHER: 000

Card 2/2

L 51150-65 EMG(3)/EPA(s)-2/EMT(m)/EPF(0)/EPR/EMP(3)/T/EMA(h)/EMA(1) Pr-4/Ps-4/Pt-10/Peb RPL WW/GE/RX 5/0000 64/000/000/0042/0045 ACCESSION NR: AT5002110 AUTHOR: Freydling, R.Kh.; Kolesnikov, G.S.; Slenimskiy, G.L.; Suprun, Soboleva, T.A. Belyavskiy, A.B. Yershova, V.A. TITLE. New chlorinated monomers for the synthesis of noncombustible polymers SOURCE: AN SSSR. Institut neftekhümicheskogo sinteza. Sintez i svoystva monomerov The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 42-45 TOPIC TAGS: fire resistant polymer, polymer mechanical property, chlorinated polymer, b proalkene polymerization, telomerization, dehydrahalogenation, radiation polymeriza-ARSTRACT: 3.3.3-Trichloropropene and 1,1,2-trichloro-1,3-butadiene, which have been The first way implicated and on were prepared by a two step reaction and their minimal and a walkymerization was an died in an effort to obtain noncombustible polymers. on a first-plorespropene was synthesized on a contraction topropane by telomerization the one with arts represented to the second of 3529 (1948) and dehydroof the second of 1 1 2 34 7 THE REAL REPORT OF THE PARTY REPORT RIVER. 1/3 . ard

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	o formed by isomerization during the block polymerization of 3,3,3-trichloropro-	
(T) () () () () () () () () () () () () ()	than atyrene and the polymers anowen given materials. The authors thank B. I. for earlying out the irradiation polymerization tests.	9 & rith ther
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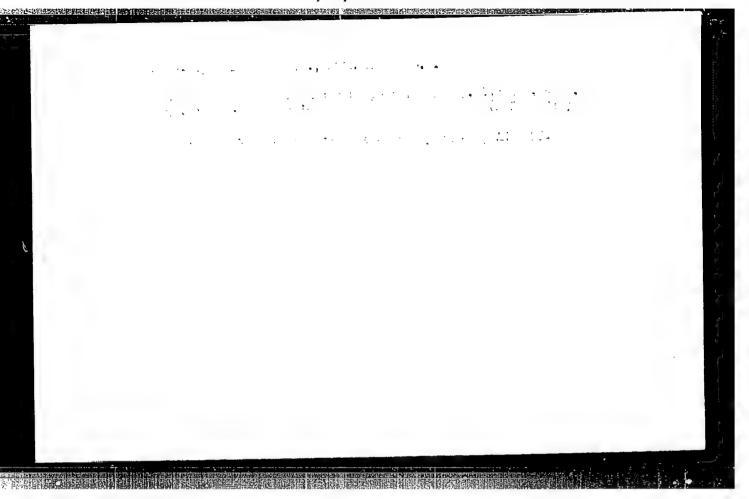
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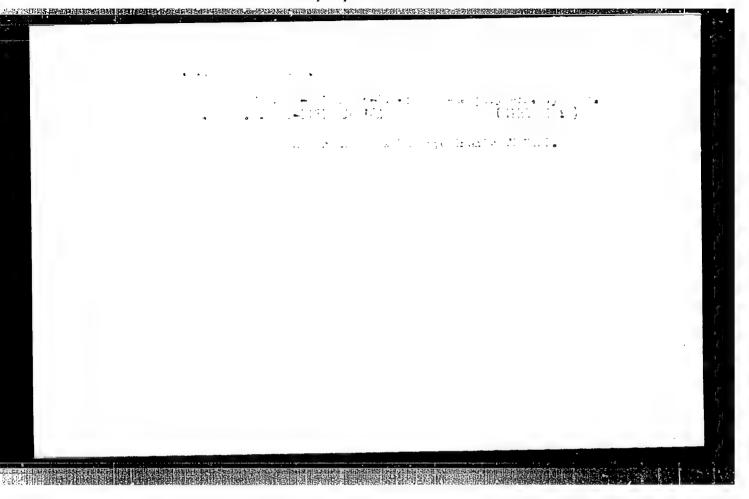
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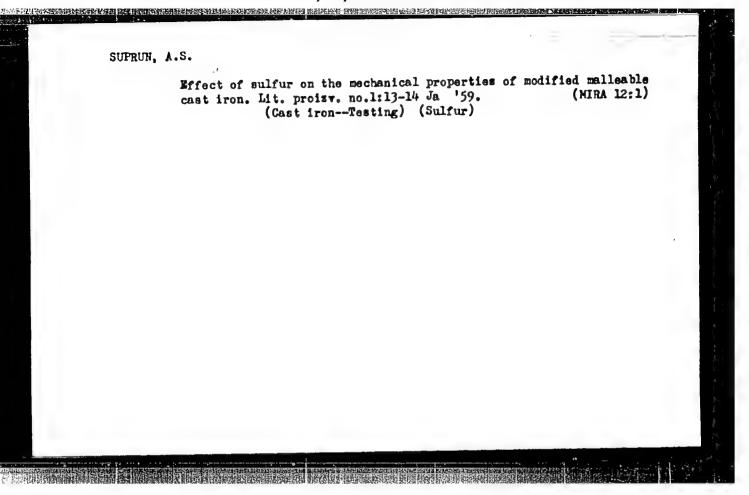
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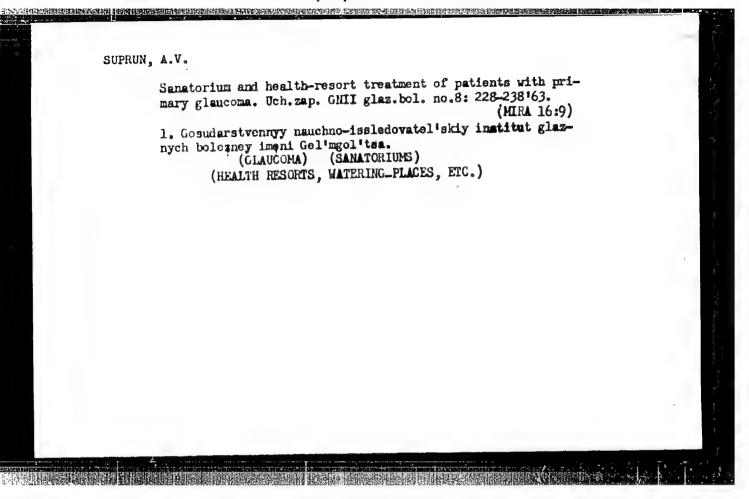
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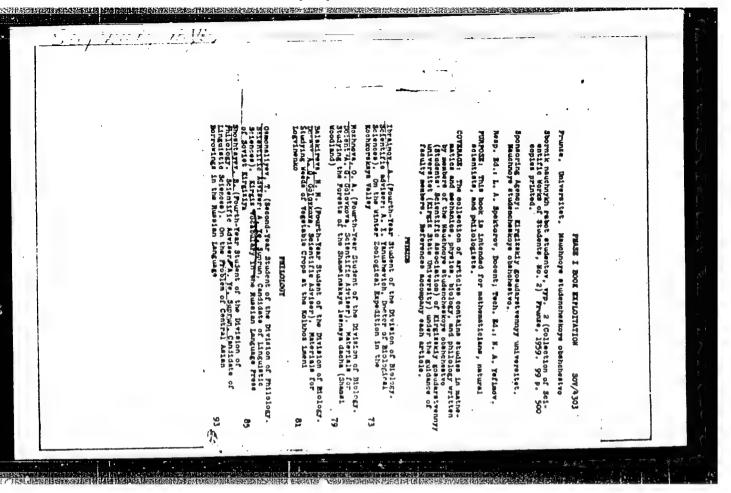
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(GLAUCOMA) (KISLOVODSK—SANATORIUMS)

(KISLOVODSK—HEALTH RESORTS, WATERING-PLACES, ETC.)



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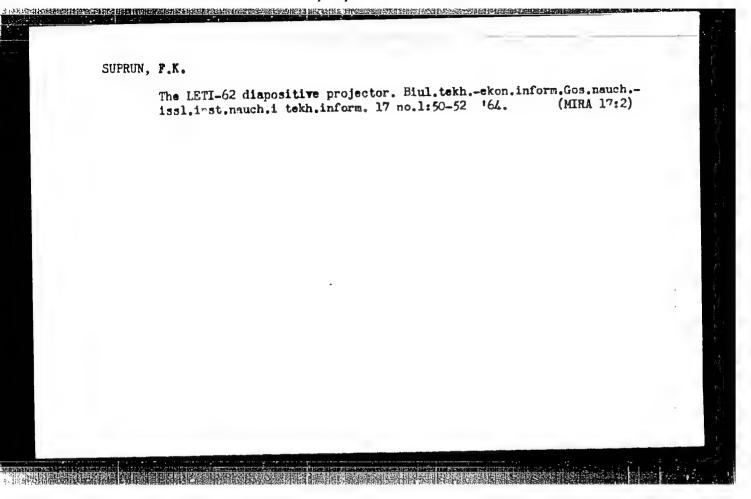
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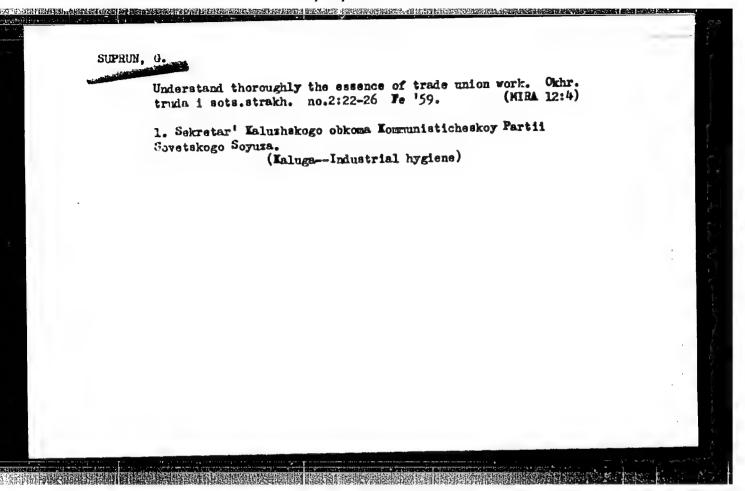
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实外的中央转动的复数数据表示时间**分别指导研究的**联络的中央逻辑的现在分词形式的经验的新疆特别的原则,他们是一种人们的主义是一种人们的主义是一种人们的一种人们的一种人们

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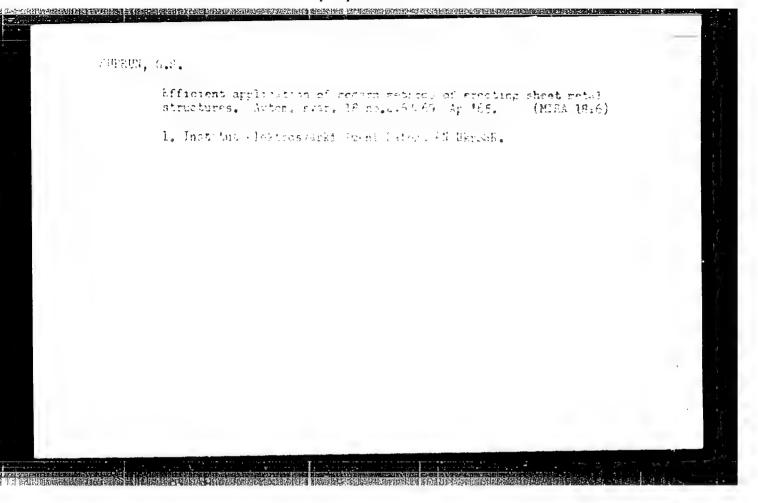
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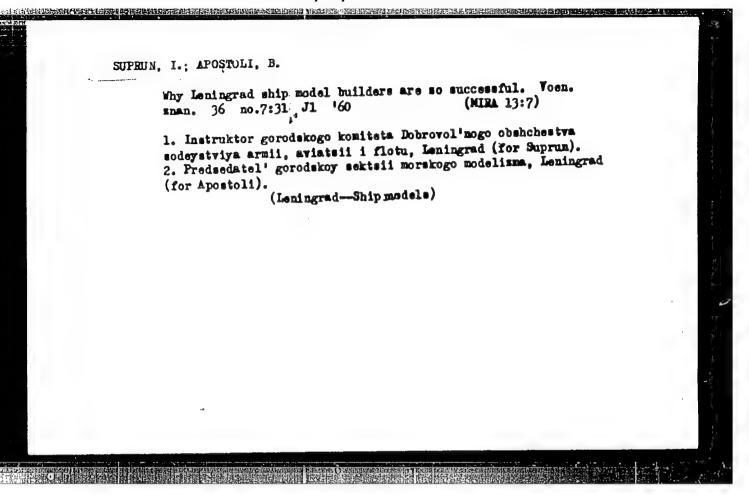
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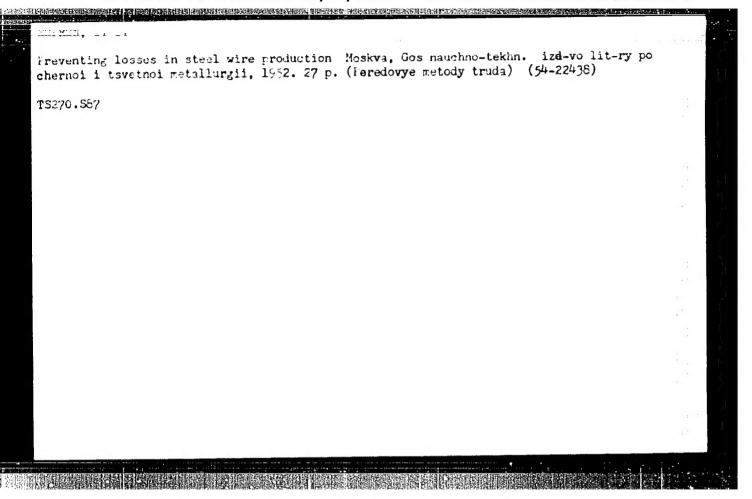
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